Vapor Recovery Executive Committee

VAPOR RECOVERY ISSUES MATRIX

September xx, 1998 Revised:

ISSUE	PRIORITY	TIMING	DESIRED OUTCOME	PREREQUISITE	WHO
Problems with Wayne "DL" dispensers & OPW nozzles.			Re-establish reliable operation.	See 24.	ARB & mfrs.
2. Investigate problems with crimping of inner hoses.			Ensure performance of VR systems. Product improvement.		ARB & mfrs.
 3. Re-evaluate Stage I equipment: Drain valves. Drop-tubes. P/V Valves. Connectors. 			Minimize emissions by ensuring equipment reliability. Product improvement.		ARB, districts & mfrs.
4. Re-evaluate slate of periodic tests (including the newly-identified 27-inch WC vacuum test for dispensers).			Re-evaluate test procedures to settle all debate (particularly for pressure-decay testing).		ARB, districts & RGOs.
5. Establish pressure drop "budgets" for vacuum-assist systems.			Limit pressure drop of hanging hardware to ensure performance.		ARB & mfrs.
6. Complete study of Stage II/ORVR emissions compatibility.			Real-world data regarding extent of emissions problem, if any.		ARB
7. Address problems with "Curly-Q" hoses.			Provide remedy for problems.		ARB & mfrs.
8. Mfr. recommendations for preventative maintenance.			Have written PM recommendations available.	See 19.	Mfrs.
9. Evaluate ORVR designs (required to meet proposed emission specs.) for Stage II compatibility.			Ensure effective (and <u>cost-effective</u>) control of emissions.		ARB & autos.

10. Test procedures for Above- ground Storage Tanks (ASTs).	Develop appropriate test procedures.		ARB & districts.
11. Adopt ORVR-compatibility test procedure.	Test needed in order to certify new Stage II systems.		ARB.
12. Evaluate program to track equipment reliability.	Provide feed-back to ARB for use in certification program.		WSPA
 13. Develop additional diagnostic tests, and conduct "beta-testing". 27-inch WC vacuum test. BA-AQMD "Bag Test". 	Mfr. prototype testers and conduct "beta-testing" in select districts.		ARB, OPW & air districts.
14. Establish appropriate actions to be taken after a "drive-off" occurs.	Provide for the establishment of appropriate requirements, as needed.		ARB, districts, mfrs. & RGOs.
15. Training and certification:Equipment installers.Maintenance personnel.Testing personnel	Establish training programs and maintain personnel records.		ARB, air districts, mírs. & contractors.
 16. UST manifolding and venting: Configuration requirements. Appropriate number of P/V valves to be installed. 	Appropriate design specs will minimize emissions potential.		ARB, districts & mfrs.
17. Develop measures to ensure Stage II / ORVR emissions- compatibility.	Ensure effective (and, cost-effective) control of emissions. Evaluate all alternatives.	6,9 & 11	ARB, autos & mfrs.
18. Develop "industry standards" for vapor recovery equipment.	Industry stds. for materials, performance, etc.		API
 19. Consider enhancements to certification process: Expiration dates for certifications. Preparation of "Summary of Certification Process" documents. 	Desirability to be determined.	See 8.	ARB.

 "Ownership" of system certifications. Extended warranty requirements. Failure mode testing as part of certification process. 	·		
20. Investigate establishment of uniform inspection requirements for new sites prior to back-filling.	Desirability to be determined.		ARB, districts & RGOs.
21. In-Station Diagnostics.	Diagnostics for new systems.	19	ARB, mfrs. & RGOs.
22. Project Stage II/ORVR "cross- over" point for target elimination of Stage II systems.	Information needed for future work regarding cost/effectiveness.		ARB.
23. Gasoline pump interlocks:Need for potential retrofit.Testing requirements.	Effectively prevent the dispensing of gasoline if a dispenser vacuum pump, or vent-line processor has failed.		ARB.
24. Evaluate need for additional design changes for OPW 11VA1.	Maximize long-term performance in the field.	See 1.	ARB & air districts.
25. Evaluate cost/benefit of a potential requirement for factory-testing of nozzles.	Maximize long-term performance in the field.		ARB & mfrs.
26. Revise list of major defects in Title 17.	Update needed. Desirable to clarify discrepancies warranting NOVs/NTCs.		ARB & air districts.

Note: Issue numbering is for listing purposes only and does not reflect any consideration of priority.